



RUSSELL
RUSSFAST HR UNDERLAY

For Warm or Cold Roof Construction
Compatible with all Russell Roof Tiles, Accessories and RussFast Solar

EN 13859-1 Flexible Sheets for waterproofing -
Definitions and characteristics of underlays.
Part 1: Underlays for discontinuous roofing

Weight	145 (-5) gsm	
Resistance to Water Penetration:		
Before artificial ageing:	Class W1	
After artificial ageing:	Class W1	
Maximum Tensile Strength:		
Before artificial ageing:	MD 265 (-15)N/50mm	CD 250 (-25)N/50mm
After artificial ageing:	260 (-15)N/50mm	215 (-25)N/50mm
Elongation:		
Before artificial ageing:	80 (+5)%	100 (+0)%
After artificial ageing:	60 (-0)%	70 (-0)%
Tear Resistance (nail shank)	180 (-30)N	200 (-25)N
Flexibility at Low Temperature	-40°C	
Reaction to Fire	(NPD)	



Roll Size

45m x 1.0m (45m²)

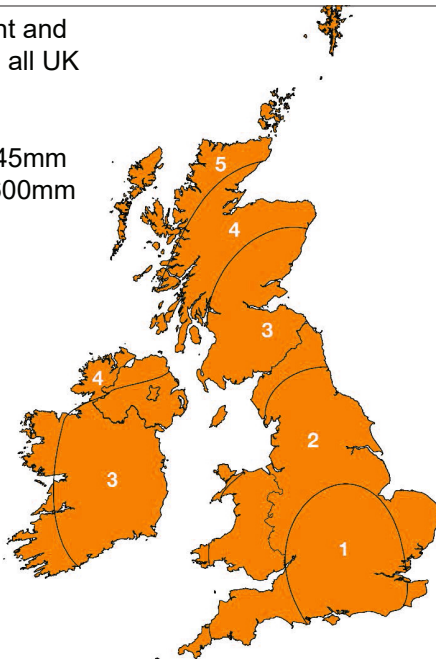
Installation

Please see reverse

Wind Uplift Performance

BS.5534 compliant and suitable for use in all UK wind zones 1-5

Batten Gauge ≤345mm
Rafters Centres ≤600mm





45m x 1.0m (45m²)

Main roof areas

Lay RussFast HR Underlay over rafters or counterbattens so as to leave shallow valleys between (max 15mm deep) whilst maintaining a clear air path. This is to allow any moisture that may reach the underlay to drain away safely under the tiling battens, to protect nail holes and prevent ponding behind or wetting of the battens.

Lay RussFast HR Underlay with minimum laps shown in the Laps table. Fix the underlay using extra-large head clout nails of copper, aluminium alloy or galvanised steel, 20mm x 3.5mm.

Eaves

Fit Russell Eaves support tray in accordance with Eaves Vent System instructions.

Verges

Lap underlay 25 - 50mm on to the outer skin of masonry, or on to the flying rafter for an overhanging verge. Or install in accordance with Dry Verge installation requirements.

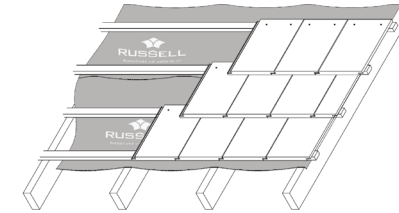
Ridges

For standard ridges lap RussFast HR Underlay over the apex by at least 150mm down each side. For dry vent ridge systems stop RussFast HR Underlay 50mm short of apex on each side in accordance with RussFast Ridge requirements.

Valleys

Lay a strip of RussFast HR Underlay not less than 600mm wide up valleys, lapped under the main roof underlay.

Laps		
Roof Pitch	Horizontal Lap up slope	Vertical Lap across slope
12.5° - 14°	225mm	100mm min.
≥15°	150mm	100mm min.



Hips

Lay a strip of RussFast HR Underlay not less than 600mm wide up hips, lapped over the main roof underlay.

Notes

RussFast HR Underlay may be used where insulation is at ceiling joist level or where insulation is between or above rafters. Roof space ventilation should also be provided at high and low level.

Do not lay RussFast HR Underlay in direct contact with any undried timber preservative (whether water-based or solvent-based).

In accordance with good building practice, this product should be covered as soon as possible after installation and preferably not more than one month after initial exposure. Within this period, when correctly installed RussFast HR Underlay will provide temporary protection against rain prior to installation of tiles. If the exposure period exceeds one month then advice must be sought from Russell Technical department.

Lap restraint - Use a fly batten or restraining batten in accordance with BS 5534 when the standard tiling battens do not coincide with the lap unless counter battens are used.

Where pipes and other components penetrate the underlay, cut neatly, accurately and turn flanges up to give a tight, water shedding fit. Install underlay seals, tapes, catchment trays and weathering membranes where specified.

Handle carefully to prevent tears and punctures and repair with adhesive tape any which do occur. Store rolls on a flat dry surface.